5109

Diog. Cht. No. 6102-1 original

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton COAST & GODETIC SURVEY LIBRARY A D ARCHIVES APR &7 1931 State: WASHINGTON DESCRIPTIVE REPORT Id destrubble 5109 Sheet No.Hydrographic Field No. 25 LOCALITY Pacific Coast Olympic Peninsula Ozette Island to Waatch Point Umatilla Reef, Cape Alaya to Mukkaw Bay 1930... CHIEF OF PARTY K. T. Adams

DEPARTMENT OF COMMERCE

U. S, COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 25

REGISTER NO. 5109

State WASHINGTON
General locality OLYMPIC PENTASULA Pacific Coast
Umatilla Reef, Cape Alava to Mukkaw Bay Locality Between Ozette Island and Weston Point
Scale 1:20,000 Date of survey Oct. 5, Oct. 13, 19 30
Vessel U.S.C. & G.S.S. GUIDE.
Chief of Party K. T. Adams
Surveyed by Frank G. Johnson and John C. Mathisson
Protracted by E. H. Sheridan
Soundings penciled by E. H. Sheridan
Soundings in fathoms feet-
Plane of reference MLLW
Subdivision of wire dragged areas by
Inked by
Verified by
Instructions dated April 16, , 19 30
Remarks:

DESCRIPTIVE REPORT to accompany Sheet No. 25 Washington Coast 1930.

AUTHORITY: Authority for this survey was the DIRECTOR'S Instructions dated April 16, 1930.

LIMITS: Inshore from Ozette Island to Waatch Point and offshore to a junction with the ship hydrography. (Incomplete)

SURVEY METHODS: The usual launch hydrographic survey methods were used. A 65 foot chartered launch was used for the deeper lines. The GUIDE'S motorsailer ran lines inshore and close to the beach dangers. Additional dangers were located by sextant cuts to the danger.

Compass courses were used to run the launch lines and these courses were recorded in the sounding volumes.

DISCREPANCIES: As far as is known no discrepancies exist on the sheet, other than it being incomplete. The seasons work was closed before the sheet could be completed.

DANGERS: A sunken rock covered 14 feet was investigated by a party of the GUIDE in Latitude 480 - 11' and 277 m, Longitude 1240 - 46' and 770 m. This rock constitutes a danger because fishing boats, coasting, usually go between Umatilla Reef and the Bodelteh Islets.

in fine weather. This is probably a very sharp pinnacle and less waters might exist. This rock is plotted on Sheet 43, 1930 and transferred to this sheet. (Su Vol 2, p 4) Vol 3, p 65 of H5/1/1

A reported breaker in Latitude 48° - 12' and 73 m, Longitude 124° - 46' and 190 m, was not investigated by the party as the hydrography did not cover this area. This breaker has been seen breaking in a light swell at low tide.

(Tentatively sharted until definitely disproved;

Her. 301932

At Latitude 48° - 13' and 754 m, Longitude 1240 - 43' and 810 m. a 12 fathom - 1 foot sounding was recorded, (Position 13e).

The location of the rock, bare $5\frac{1}{2}$ feet at M L L W, at Latitude 48° - 15' and 240 m, Longitude 124° - 43' and 538 m., was verified by the party. Spike Rock, a sharp pinnacle 35 feet high, serves as a good land mark for this rock.

A shoal of 4 fathoms - 5 feet at Latitude 480 - 18' and 148 m, Longitude 1240 - 42' and 1060 m., was found after drift sounding for three-quarters of an hour. (Position 52d)

A shoal with a least depth of 7 fathoms was round at Latitude 480 - 19' and 300 m, Longitude 1240 - 42' and 323 m. Drift soundings were taken over the vicinity for 20 minutes.

COMPARISON WITH PREVIOUS SURVEYS: The survey is incomplete and for that reason no accurate comparison can be made.

GEOGRAPHIC NAMES: See the Descriptive Reports for Topographic Sheets Register No. 4450 (seasons 1929 and 1930) and Sheet A-1930.

Respectfully submitted,

John C. Mathisson,

Jr. H & G Engineer,

Steamer GUIDE.

REFER TO: JCM/s-Oll.

Approved, forwarded:

K. T. Adams,

Commanding Officer,

Steamer GUIDE.

VERIFICATION REPORT to accompany Hydrographic Sheet No. 25

This will certify that I have examined the smooth sheet and records and nereby approve same.

The work on this sheet was done late in the season when the weather was unsettled. The SEAKIST, by which most of the work was done, had to base at Neah Bay which made long runs to and from the work. The weather had become bad enough so that it was deemed inadvisable to try to complete the sheet during the remainder of the season.

From signal Tree to Triangulation Station Rock the work is complete, joining the ship work offshore and completed to as near the beach as was practicable.

In the vicinity of Triangulation Station Umatilla and from Triangulation Station Rock to Triangulation Station Wat, the work makes a junction offshore with the ship work and is complete in itself to the most easterly line in each case. More work remains to be done inshore however.

Both rocks near Umatilla Reef which were mentioned in the Descriptive Report were seen breaking by various officers on the ship. The rock east of Triangulation Station Umatilla was seen breaking at an extreme low tide with but a moderate sea. The rock northeast of Triangulation Station Umatilla was seen breaking oftener. It is probable that less water exists over the rock just east of Triangulation Station Umatilla. Both rocks will be investigated next season.

Upon comparison of boat, smooth and topographic sheets, two rocks are found shown on the boat sheet Latitude 48° - 14.6', Longitude 124° - 42.7', the topographic, smooth sheets and records show only one. Due to the notes on each of these rocks it is thought they should be considered in applying this work to the charts. These rocks will be investigated next season.

The topography was completed only to the Point of the Arches. This necessitated locating three signals by hydrographic cuts. Next season these same signals will be located by topography.

A boat sheet has been made containing all information necessary to continue this work. This sheet contains all signals, limits etcetera, necessary so that no data from the office will be required to continue the work.

A note has been made to develop the 8 farhom sounding one mile southwest of the Bodelten Islands.

K. T. Adams,

KITAd

Commanding Officer,

Steamer GUIDE.

KTA/8

STATISTICS:

DAY	BOAT	NO. POS.	NO. SND'GS.	STAT. MI.	VOL.
à	SEAKIST	60	221	15.3	I
b	11	66	262	16.3	I
c	11	44	13 8	11.1	I
đ	11	91	316	20.8	I
е	Ħ	52	151	10.5	I
f	Ħ	32	103	7.0	I
а	MOTORSAILER	30	303	19.1	II
Ъ	11	6 8	294	16.6	II
	TOTAL	503	1788	116.7	

LIST OF SIGNALS Ozette to Tatoosh Island Washington Coast

Sheet No. 25

NAME:		SHRET NO.
BAT	Topo. Signal	A 1930
BAN	Topo. Signal	A 1930
BEACH	Topo. Signal	A 1930
BIT	Topo, Signal	A 1930
BLUFF	BLUFF 1930	
CLOTH	Topo. Signal	A 1930
DUCK	DUCK 1930	
FATHER	FATHER 1930	
FLAT	Topo. Signal	Register No. 4450
FUCA	FUCA PILLAR 1930	
GREEN	Hydro. Signal	Volume 2 - Pages 26 and 27.
HAP	Topo. Signal	A 1930
HI	SLANT 1930	
HOT	Topo. Signal	A 1930
INDIAN	INDIAN 1930	
KLO	Topo. Signal	A 1930
KNIFE	KNIFE 1930	
LAR	Rock off Point Arches 1930	
LOON	LOON 1930	
MAT	Hydro. Signal	Volume 1 - Page 23
NET	Topo. Signal	A 1930
NEWT	Topo. Signal	A 1930
OZETTE	OZETTE 1930	
PIN	Hydro. Signal	Volume 1 - Pages 10 and 11.
POINT	POINT 1930	_
RED	Red Roof House 1930	
SHACK	Topo. Signal	A 1930
SON	SON 1930	
SPIKE	SPIKE ROCK 1930	
STEW	Topo. Signal	A 1930
TAD	Topo. Signal	A 1930
TIM	Topo. Signal 1893	Register No. 4450
TOOSH	Tatoosh Island L. H. 1930	
TREE	Topo. Signal	A 1930
UMATILLA	UMATILLA 1930	
WAT	WAT 1930	
WHITE	WHITE ROCK 1930	
WILL	Topo. Signal	A 1930

DIVISION OF CHARTS, FILE No. . DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

U.S.C. & G.S.S. GUIDE, Seattle, Washington.

SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY: The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted: K. Adama Chief of Party. POSITION. Method of deter-mination. DESCRIPTION. Latitude Longitude. Charts affected. Datum. D. M. meters. D. P. meters. Triang. FATHER (high pin rock) 48 13 42 1154.1 941.5 NA 1930 5102 SPIKE ROCK: Triang. (sharp pin rock) 15 565.7 124 43 NA 1930 1.8 6102 Triang. FUCA PILLAR 48 22 1224.1 124 43 1047.9 NA 1930 6102

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

11—6948

HYDROGRAPHIC SHEET No.57.09.

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	503
Number of positions checked	170
Number of positions revised	3
Number of soundings recorded	1788
Number of soundings revised	45
Number of signals erroneously	
plotted or transferred	

Date: August 20, 1931
Cartographer: Hawlell Tuunay

Lection of Field Parods

Report on H-5019

Unstilla Reef, Cape the to Muchan Bay.

Surveyed in 1930

Instructions dated april 16, 1930 (quil).

Chief of Party — H. T. adams

Lurrylby — F. G. Johnson, J. C. Mathison

Orohaded by — E. H. Shiridan

Lonndings Stated by — E. H. S.

Verified & inked by — Hawlettemunay

1. The records conform to the requirements

of the Hydrographic manual except that:
(a) Vol. #2 of the motoroacher was not neathy
recorded.

(b) To leaderness was recorded in tallors a-b-d-e reflags.

2. The plan and character of development fulfill the requirement of the Hydrographic nanual.

3. The plan and extent of development satisfy the Specific Instructions. 4. There are not sounding line crossings on this sheet. 5 The 10 x 20 fathers awares can be satisfactorily drawn. Resent information is

insufficient to completely develope the 5 fathous + lesson curres.

6. The fill protesting was very account.

7. Irpographic details were not neathy and accurately transferred and newscitated several changes and additioned plotting of Afohou wishs. Way letters were affixed to ends of lines and isolated or detached positions.

8. Junitians. The function with H-5111 is satisfactory except that there might be more actual overlap in the vicinity of Flattery

Rocks.

(a) a 10-fm. Shoul indication of H-5/11 in lat. 48°18', long 124°43 has been rinfied by this revery. The development disclosed a least depth of 45 fm. in this ricinity. There is no indication of this should hast 6102 and a 15 fm is indicated on H-1845 (1888)

(6) a similar shool indication in lat. 48°13.4 long 1240 43:5 has been fastistly renfied by this survey. While the actual sport may not have been developed, a last dipth A 12 fm. was found 140 meters (approx.) due West. There is no industring this shool on the chart and a 11 fm. is indicated approximately 160 meters East on H-1845 (c) The 11 fm shool indication in lat 48° 19,7, long 1240 43.0 will be derelated next season, (Lee D. Report of H-5111) (d) The junction on the South will be make when that sheet is renful (H-5070). 9. no comprehensing companion may be make with previous survey as this survey is misorphile at present. Vorrery a short induation of 84 fers. on H-1845 (1888) and present on chart 6/02 falls within the limits of this survey and dres not appear to have been developed Lat. 49°19.6, long 1240 41.9). a shool industion, howevery, of 10 fm. was found approximately 280 meters northerest of this location. Further surreying is required in this

area and will in all perbability be done next sesson.

11. Remarks:-

(a) Topographie names iver inhel.

(b) all cuts to was were verified

(c) The shoot with a least depth of 5 and 2% fin. in lat 48° 112', long 1240 46',5 is from H-5111 and plotted from the fix.

(Lee Vol *2, page 41 and Vol *3, page 65 of that sheet for further information)

d). In lat. 48°15,5, long 124°43,1 a weh awash was recorded in position 34 a day (grun). Information relative to this **

with is not considered sufficiently accurate to manant a fixed breation on this sheet.

12. Respectfully submitted - Harolder munay

* This note in the record evidently refers to pos. 33 a and not pos. 34a which would make the approx position of the rock coincide with the rock which is shown on the sheet SSN of Spike Rk, located by the topographer. RLJ

AND REFER TO NO. 80-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 5109

Cape Alava to Mukkaw Bay, Coast of Washington

Surveyed in 1930

Hand lead soundings.

Instructions dated April 16, 1930 (GUIDE) Director's letter dated April 23, 1930.

Chief of Party, K. T. Adams.

Surveyed by F. G. Johnson, J. C. Mathison.

Protracted and soundings plotted by E. H. Sheridan.

Verified and inked by H. W. Murray.

- 1. The records conform to the requirements except that not enough bottom characteristics were entered in the motor sailer record.
- 2. The extent of the survey in the areas which have been completed, satisfy the specific instructions.
- 3. There are no cross lines. Adjacent lines agree fairly well.
- 4. Within the areas which are completed the information is sufficient for drawing the usual depth curves, except some of the shoaler curves close inshore.
- 5. The offshore junction with H. 51ll is satisfactory and the agreement good. A 10 fathom fathometer sounding shown on H. 51ll in lat. 48° 13'.4, long. 124° 43'.6 is partly confirmed by a 12 fathom sounding on H. 5109. The position of the 10 fathom sounding is somewhat indefinite as it was taken while the ship was turning.

The work on this sheet at present does not make a junction with H. 5070 on the south, and there is no recent work on the north.

6. Comparison with previous work:

The entire area on this work falls within the limits of the survey of 1888, H. 1845. As the recent work is incomplete a detailed comparison can not be made but a few of the most critical soundings from H. 1845 will be mentioned in order that they may be examined during the coming season:

An 8 3/4 fathom sounding shown on H. 1845 in lat. 48° 19'.6, long. 124° 41'.9.

An 8 fathom rock shown on H. 1845 in lat. 48° 17'.1, long. 124° 41'.95, which is outside the present 10 fathom curve.

An 11 fathom sounding shown on H. 1845 in lat. 48° 13'.4, long. 124° 43'.4.

- 7. The usual amount of field plotting was fairly well done but rocks and other features outside of the high water line were not carefully and accurately transferred.
- 8. The character and scope of surveying will be considered when the survey is completed.
- 9. The following places need further investigation:

An 11 fathom sounding shown on H. 5111 in lat. 48° 19'.7, long. 124° 42'.9.

A reported breaker, shown on our charts in lat. 48° 12'.1, long. 124° 46'.1 was seen breaking but was not investigated. As it to falls in the area to be surveyed next season it will probably be located then.

A re-examination of the rock on which a least depth of 14 feet was found, between Umatilla Reef and Bodelteh Islets, since 3 there is a possibility of less water. This rock was reported in letter No. 207, 1930.

There is a pronounced shoaling in lat. 48° 10'.3, long. 124° 47'.1 which should be a little further developed.

A 13 fathom sounding between two 22 fathom soundings in lat. 48° 11'.3, long. 124° 47'.2 should be developed.

An 8 fathom sounding in lat. 48° 10'.3, long. 124° 48'.5 should be investigated.

It is noted that the old topographic survey T. 1789 shows three bare rocks in about lat. 48° 10'.8, long. 124° 43'.5 while T. 4602 shows only breakers. This discrepancy can be adjusted next season.

10. Reviewed by R. L. Johnston, August 31, 1931.

Inspected by E. P. Ellis.

Approved:

Chief, Section of Field Records

Chief, Section of Field Work

The 8,83/4 and 11 fathous soundings from H. 1845 should not be charled at present. Further consideration whomat be given them when the 1931 field work is seewed.

E. P. Ere's

June 11, 1931

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET 5109

Locality Umatilla Reef, Cape Alva to Mukkaw Bay, Washington Coast

Chief of Party: K. T. Adams in 1930
Plane of reference is mean lower low water, reading
3.8 ft. on tide staff at La Push
17.2 ft. below B. M. 4

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of day's work.
 - 9. Leadline corrections not clearly stated.
 - 10. Kind of sounding tube used not stated.
 - 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
 - 12. Legibility of record could be improved.
 - 13. Remarks.

Chief, Division of Tides and Currents.